0500

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/662,254

PATE: 09/25/2000 TIME: 12:14:19 ENTERED

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Output Set : N:\CRF3\09262000\1662254.raw

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5 - 116 - APPLICANT: Moyer - Richard W.
               Yr. Li
               Sawden, Alison L.
         (120) FIFLE OF INVENTION: Materials and Methods for Delivery and Expression of Heterologous DNA
     II in Vertebrate Cells
15 - 130 - FILE PEFERENCE: UF-221C1%C1
C--> 19 <140> CURRENT APPLICATION NUMBER: US/09/662,254
C--> 21 <141> CURRENT FILING DATE: 2000-09-14
     25 Inc. NUMBER OF SEQ ID NOS: .
     29 - 170 - ROFTWARE: Patentin version 3.0
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     35 - 211 - LENGTH: 861
     37 <212 - TYPE: DNA
     39 - 213 - OPGANISM: Amsacta moorel outomoposvirus
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     16 ffiftafaig fygfiltafa fallagaaga agaafalacg aaataltaga tyggggafalf
                                                                                      120
     48 conditiquas tunataraga faafgraadt talopaagtg auttalatac agalaaatit.
     50 aarbetaaty tiitaanata titaattaan afattyttäy attitaatae ayanattasa.
     52 aardacatta tistäcaito aatigatiat aigaaastat attatataag tiataatadaa
     ol alaadaataa talaaattaat attadataga talaatuatt tatggattot tatalgaaga
So alattaloot ataatgaatt tyaadaagat ittagaatti cacaagttaa aatagataac
     58 tytyatitya antyteataa aygattiigi ganatatata ytaaaataen aaageeatta
69 etanattiit taatyaetti atsaceanat aanatattiy eattaggten tagittaggi
                                                                                      480
                                                                                      140
     62 qgcqqaatat tatcaatago agoftatgat attffraata tffftaaataa aaaaqaaaff.
                                                                                      600
     »1 ataffatata caacgyyaan ucofogtgfa tyfaafhaag attfffataa faaffycaat.
                                                                                      860
     whilamantantanta tacatagagt agalabitta agtgatgtat atafaaatgc gata/cttct
                                                                                      ~ 8n
     68 gttfta-ceat titatgataa facagtatat tafaaautag gaaaaafatg gtaffttgat
      10 gttaattuug gaaatataat attanatoat aaactagaaa titattitaa caatattgat
      2 aatotamaat atitagaaat t
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     88 attawaggag gatotgtaca ogtawagga aawatagttg gattatotaw aggattacan
                                                                                      120
     90 ggafftbatg Etbatqaata Eggtgatgtg agtaatggtt gfacatbagb aggagaabat
                                                                                      180
     92 tituateest staatsques sestigagat attagtgata saatacateg testgftggt
     34 gaitttggta atgtgtatgd agadqaaaat ggdgitgdta atatfqattt tdadgatqat
     96 attatateat tglgtggaac aaatautata ataggaagaa cattagtagt teatgatteg
                                                                                      360
                                                                                      120
     98 cetratgatt taggaaaaac toatcaccct ttyagtaaaa caagtggtaa ttctqqcgqa
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 RAW SEQUENCE LISTING
 DATE: 09/26/2000

 PATENT APPLICATION: US/09/662,254
 TIME: 12 11:49

Input Set : A:\uf-221xc1.txt
Output Set: N:\CRF3\09262000\1662254.raw

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	aata ataatataaa					210
	that aatgraaaaa	-				300
	tosa attitatada					360
	ttii aciaaaaata					1.10
	gatt otrataatat					430
	acai taiggattaa					140
	aasa ttagtaatat					600
	gata aaaaattaat		-			660
	atda atlattttt					120
	aisa airasterre tatq aasatandag					78.0
	tary hamara.cag tary tititagaage					810
	uqiy itiliqgaaqo toor italagaqqa					9(-0)
	cog intaragagga aata attataaato					9 ( 0
						1010
	aaaa otgahaaaag					1010
	aata aastttggaa					1140
	atga gaatgittig					1200
	gati aaicaattta					1260
	qtta atatattatq					13.0
	tatg gasaaataag	**		rgrafadasa	attaaatgta	1359
	itti ataataatti	cqataatgta	attaagtet			1009
-16 < 210 +	SECTION AND L					
163 32113	LENGTH: 794					
163 (211) 163 (212)	LENGTH: 794 FYFE: DNA					
$\begin{array}{c} 163 < 211 + \\ 164 < 213 + \\ 164 < 213 + \end{array}$	LENGTH: 794 FYFE: DNA ORGANISM: Amsac	ta moorei e	atomopekriri	ıs		
163 ×211 + 163 ×212 + 163 ×213 + 163 ×213 + 163 ×100 ×	LEMGTH: 794 IVFE: DNA ORCANISM: Amsac SEQUENCE: 4		•			
163 ×211 + 163 ×213 + 163 ×213 + 1163 × 100 + 113 atgaige	LENGTH: 794 FYFE: DNA OBCANISM: Amsac SECTENCE: 4 gatg acartaactt	gtataatgaa	totqaaaqat	tacaaacatt		€0
163 ×211+ 1c+ ×212+ 164 ×213+ 164 ×213+ 164 ×160+ 164 atgatg	LEMGTH: 794 TV:E: DNA ORGANISM: Amsac SEQUENCE: 4 gatg acartaactt attr talaactcct	gtataatgaa gaathattig	totqaaaqat otaqtaatqq	tacaaacatt attitattat	ataggtgaga	120
163 ×211 × 1c × 212 × 16 × 213 × 16 × 213 × 17 × 100 × 17 ± atgatg 17 × coataa 17 × atgata	LEMGTH: 794 FYFE: DNA PROANTSM: Amsac SHQTENCE: 4 gatg acartaactt attr talaactcct caat raiatgtetg	gtataatgaa gaathattig tattgiggag	totqaaaqat otaqtaatqq tacaaataaa	tacaaacatt attitattat taaalgggtt	ataggtgaga gaaggegata	611 631
163 v211+ 1c3 v212+ 163 v213+ 173 v100+ 173 atgate 174 coutaa 174 atgata 175 aaccag	LEMGTH: 794 FVFE: DNA ORGANISM: Amsac SEQUENCE: 4 gatg acartaactt attritataactect coat faintgetg aactigateataa	gtataatgaa gaathatttq tattgtggag aaattttctc	totqaaaqat otaqtaatqq tacaaataaa caaattqtaq	tacaaacatt attitattat taaaigggtt tttiitaaaa	ataggt gaga gaaggegata tetaatgatg	120 180 210
183 <211 + 160 + 212 * 167 + 213 * 167 + 213 * 175 + 100 * 175 + 100 * 175 + 100 * 175 + 100 + 1	LEMGTH: 794 FVFE: DNA PROANTSM: Amsac SECULNCE: 4 gatg acattaactt attr talaactcot coat talattgtgtg aaat tgitcatada atoi gtitug:aar	gtataatgaa gaathattq tattgtggaq aaattittctc aataaaaatt	totqaaaqat otaqtaatqq tacaaataaa caaattqtaq tafotaacat	tacaaacatt attitattat taaaigggtt tiiitaaaa tacacaaaaa	ataggtgaga gaaggegata totaatgatg ggagnagtte	110 180 210 700
183 <211 + 163 <2112 + 163 <213 + 174 <213 + 175 <160	LEMGTH: 791 FYFE: DNA PROANISM: Amsac SEQUENCE: 4 gatg acartaactt attr tataactcot cost raintfutgty aact tgitcataaa atoi grifug aar atct atcaacta	gtataatgaa gaathattq tattgtggag aaattttoto aatamaaata gttgaaagao	triqaaaqat chaqtaatqq ticaaataaa caaattqtaq tatotaacat ttaaaacata	tacaaacatt attifattat taaaiggytt tttiftaaaa tacacaaaaa taaaaagtog	ataggtgaga gaaggegata totaatgatg guagnagtte cotatttcaa	110 180 210 ±00 ±60
183 ×211 × 110 × 212 × 16 × 213 × 17 × 213 × 17 × 160 × 17 × coutaa 15 × atsata 15 × aacoag 184 × yaatag 187 × atcota 184 * tyccta	LEMGTH: 794 ETYPE: DNA PROANISM: Amsac SEQUENCE: 4 gaty acattaactt atti tataactcct cast taiatqtqty aact tgitcquaat atti qttquaat atti qtitquaat atti qtitquaat	gtathatgaa gaathattq tattgtggag aaattttoto aatamaaata gitgaaagan oragolyaaa	totqaaaqat otaqtaatqq ticaaataan caaattqtaq tatctaacat ttaaaacata ctquattcts	tacaaacatt attifattat taaaiggytt tttiftaaaa tacacaaaaa taaasagtog ttatactaga	ataggtgaga gaaggegata totaatgatg guageagtto cotatttoaa aaaaytgata	110 180 210 ±00 ±60 110
183 (211) 163 (213) 163 (213) 173 (103) 174 atgatg 175 contan 175 atgatg 175 contan 175 atgatg 175 atcord 187 gantag 187 atcord 187 typora 188 aagtta	LEMSTH: 794 FYFE: DNA PROANTSM: Amsac SECTENCE: 4 gaty acartaacte tatartect cast faratetety aaat tgitcataaa atta gtjtuguaat atti attaaatatt fff faragaaaaa tti faragaaaaaa	gtatiatgaa gaatfattu tattutugaga aaattitetu gitgaaagac chagcayaag gatgutugtt	totqaaaqat staqtaatqq ticaaataaa caaattqtaa tidaaacat tidaaacata cigaattctt taaataaatq	tacaaacatt attitattat taaalggytt ttititaaa tacacaaaaa taaacagtag ttatactaga ggaaacagac	ataggtgaga gaaggegata tetaatgatg guageagtte eetattteaa aaaagtgata gatgateett	120 180 210 20 260 120 180
183 (211) 163 (212) 163 (213) 173 (atgatg	LEMOTH: 794  FYFE: DNA  PROANTSM: Amsac  SEQUENCE: 4  gaty acartaactt  attr talaactcc  aast talatgtgty  aaot tglicalaaa  atol grifugiaata  ittr talaaaatatt  ittr talaaaaaat  aarg ctritaltgtg  alca cocaayatgg	gtataatgaa gaatrattig tattgiggag aaattitoto aataaaaata gitgaaagao gatggiggaa gatggiggit titgataaa	totqaaaqat ctaqtaalqq ticaaatada caaattgtaq talctaacat ttaqaacata criguathott taqataaatq qtqattafgt	tacaaacatt attifattat taaaigggtt tttiftaaaa lacanaaaaa laaanagtog italactaga ggaaacaqac laaantinia	ataggt gaga gaaggegata tetaatgatg gaagnagtte cetattteaa aaaagtgata gatgateett aaaggeaaag	120 180 210 700 760 120 180 540
183 ×211 × 160 × 212× 160 × 213× 170 × 160 × 170 × atgatg 170 coatna 170 maccag 180 macc	LEMGTH: 791 FYFE: DNA SECULINES: 4 gatg acartaactt attr tataactcot cost faintgetty ator tgitoataaa ator at caaatat fff tatagataa ator ataaatat ator ataaatat	gtataatgaa gaatrattig dattigtggag daattitete datamadata gitgaadgae erageigdag gatggiggt titigatdaat dedeaateed	trtgaaagat rtagtaatgg ticaaataan canattgrag tafctagcat tragaacata crguatfett tagaataatg trgattargt cotttatcaa	tacaaacatt attifattaf tadafggytt tttiftadaa tacanaadaa tadanagtog tafactaga ggaaacagac tadantiqia atcgtogada	ataggt gaga gaaggegata tetaatgatg gaagnagtte ectattteaa aanaagtgata gatgateett anaggunaaag anaganaata	120 180 210 20 20 20 120 180 500
183 ×211 × 110 × 212× 161 × 213× 17 × 213× 17 × 213× 17 × 200 × 17 × 200 × 17 × 200	LEMGTH: 791 FYFE: DNA PROANISM: Amsac SEQUENCE: 4 gatg acartaactt attr tataamtect cast tanattergty dao; tgitoatada atta attaaatatr fitt facagaaada aarq ctttattgt atca aasaqtaatg ttca aasaqtaatg daar aastatatt	gtatmatgaa gaatmattu tattgugag aaattitete aataaaaata giigaaagae eragemyaaa garggugat titgataaa acagaateea	trtgaaagat stagtaatgg ticaaataan caaattgtag tafetaacat ttagaacata erggattett tagaataatg gtgattatgt cytttatcaa aaaatgatat	tacaaacatt attifatiat taaaigggt tttittaaaa tacanaada tacanagtog ttatactiga ggaaacaga caaanttqta atcgtcgaaa	ataggt gaga gaaggegata totaatgatq gaagnagtto cotatttoaa adaagtgata gatgatoott adaaggedaaa adaaggedaaa adaagadaata adaagttgtt	120 180 210 20 20 20 180 180 540 600
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183 ×211 × 160 × 212× 160 × 213× 170 × 160 × 170 × atgatg 170 × atgata 170 × accag 180 × attra 190 × attra 190 × accag 180 × a	LEMGTH: 791 TYPE: DNA PROANISM: Amsac SEQUENCE: 4 gatg acartaactt attr fataactcct actr fataactcct actr fataactcct actr fataactcct actr at caaatat fift fatagaadad actg ctrttattgt acca acaagaatgg tica acaagaatag acca acgayttaf tatc gatggaada actcc ttaa	gtatiatgaa gaathatty tattgigay aaatittete aataaaata giigaaagae erageagaag gatggiygt tiigafaaat acaeaateea aaegatgaa tyttigtge	trigaaagat stantaatgg ticaaalaaa canattgtag taletaacat tidaaacata erguattett tanataaatg gigattateg cyittatcaa aaaatgafat ctiytggtca	tacaaacatt attifatat taaaiggut ttitifaaaa tacanaaaaa taaanaging ttatactaga ggaaacagac taaanttifat atcglegaaa aaaattafgt	ataggt gaga gnaggegata tetaat gatq gnaggeagtte ectattteaa annagtgata gatgateett annaggenaaa anaganaata anagattgtt tyrggaaaat	120 180 210 20 20 20 180 180 540 600 720
183 ×211 × 160 × 212× 160 × 213× 170 × 160 × 170 × atgatg 170 × atgata 170 × accag 180 × attra 190 × attra 190 × accag 180 × a	LEMGTH: 794  TYPE: DNA  PROANTSM: Amsac  SACTENCE: 4  gaty acartaacte  tatar tataretect  cast tataretect  cast tataretect  cast tataretect  atoa grytuguar  atoa attaraatatt  fft tataraatatt  fft tataraatatt  fft acaraatat  acar cettattgt  acar acaraatat	gtatiatgaa gaathatty tattgigay aaatittete aataaaata giigaaagae erageagaag gatggiygt tiigafaaat acaeaateea aaegatgaa tyttigtge	trigaaagat stantaatgg ticaaalaaa canattgtag taletaacat tidaaacata erguattett tanataaatg gigattateg cyittatcaa aaaatgafat ctiytggtca	tacaaacatt attifatat taaaiggut ttitifaaaa tacanaaaaa taaanaging ttatactaga ggaaacagac taaanttifat atcglegaaa aaaattafgt	ataggt gaga gnaggegata tetaat gatq gnaggeagtte ectattteaa annagtgata gatgateett annaggenaaa anaganaata anagattgtt tyrggaaaat	120 180 210 :00 :00 :00 180 180 540 600 720 780
183 ×211 + 100 × 212 × 100 × 213 × 100 × 1	LEMGTH: 791 ITYPE: DNA IROANISM: Amsac SEQUENCE: 4 gatg acaitaactt attr tataacttoct cast tanityrety ado; tgitocatada atta attaatate ittr tataacatate ittr acacacate ittr acacacacate ittr acacacacacacacacacacacacacacacacacacac	gtatiatgaa gaathatty tattgigay aaatittete aataaaata giigaaagae erageagaag gatggiygt tiigafaaat acaeaateea aaegatgaa tyttigtge	trigaaagat stantaatgg ticaaalaaa canattgtag taletaacat tidaaacata erguattett tanataaatg gigattateg cyittatcaa aaaatgafat ctiytggtca	tacaaacatt attifatat taaaiggut ttitifaaaa tacanaaaaa taaanaging ttatactaga ggaaacagac taaanttifat atcglegaaa aaaattafgt	ataggt gaga gnaggegata tetaat gatq gnaggeagtte ectattteaa annagtgata gatgateett annaggenaaa anaganaata anagattgtt tyrggaaaat	120 180 210 :00 :00 :00 180 180 540 600 720 780
183 ×211 + 163 ×212 × 161 × 213 × 171 × 160 × 171 × 160 × 171 × 160 × 171 × 160 × 171 × 160 × 171 × 160 × 171 × 17	LEMGTH: 794 ITYPE: DNA IRGANISM: Amsac SEQUENCE: 4 gaty acaitaactt atti tataactcct cast taintytyty and typicatada atti attaactata itti tacayaaada anty ctritattyt atca coccagaigg tica aaiagtaaty adaa acyayttat tatc yarggataaa atca itaa	gtataatgaa guutnattq tattgtggaq aaatittete autamaanta gitgaangae erageugaag gatggiggt titgaraaat acaeaateea aacgatgaa tgrittgtge tgreeygtat	triqaaayat ctautaalyy tidaaalada canattginy taletaacat itaaacata ciguatheti tanatdaatg gigattalgi cuittateaa aaaatgahat cityiggina gicyaaataa	facaaacatt faaalgggtt tttiffaaa facanaaaaa faaanagfog ftafactaga ggaaacaqac faaanttiffa atcitcgaaa acaattafit tafattitigt aataaaadac	ataggt gaga gnaggegata tetaat gatq gnaggeagtte ectattteaa annagtgata gatgateett annaggenaaa anaganaata anagattgtt tyrggaaaat	120 180 210 :00 :00 :00 180 180 540 600 720 780
183 ×211 + 163 ×212 × 161 × 213 × 171 × 160 × 171 × 160 × 171 × 160 × 171 × 160 × 171 × 160 × 171 × 160 × 171 × 17	LEMGTH: 791 ITYPE: DNA IROANISM: Amsac SEQUENCE: 4 gatg acaitaactt attr tataacttoct cast tanityrety ado; tgitocatada atta attaatate ittr tataacatate ittr acacacate ittr acacacacate ittr acacacacacacacacacacacacacacacacacacac	gtataatgaa guutnattq tattgtggaq aaatittete autamaanta gitgaangae erageugaag gatggiggt titgaraaat acaeaateea aacgatgaa tgrittgtge tgreeygtat	triqaaayat ctautaalyy tidaaalada canattginy taletaacat itaaacata ciguatheti tanatdaatg gigattalgi cuittateaa aaaatgahat cityiggina gicyaaataa	facaaacatt faaalgggtt tttiffaaa facanaaaaa faaanagfog ftafactaga ggaaacaqac faaanttiffa atcitcgaaa acaattafit tafattitigt aataaaadac	ataggt gaga gnaggegata tetaat gatq gnaggeagtte ectattteaa annagtgata gatgateett annaggenaaa anaganaata anagattgtt tyrggaaaat	120 180 210 :00 :00 :00 180 180 540 600 720 780
183 ×211 × 160 × 212× 161 × 212× 161 × 213× 171 × 160 × 171 × 160 × 171 × 160 × 171 × 160 × 171 × 160 × 171 × 160 × 171 × 160 × 171	LEMGTH: 791 TYPE: DNA OBCANISM: Amsac SEQUENCE: 4 gatg acartaactt attr tataactcot coat faintgtgtg acart gardactaa atta tracactaa atta coccaccaa atta acactaata atta acactaata atta acactaata atta acactaata atta acactaata acac acaccacta atta gargataa atta tata atta traca atta traca atta Amsac LENGTH: 885 IYFE: DNA IYEGANISM: Amsac SEQUENCE: 5	giatiatgaa guatiattig tattigigag aaattitete aatamaaata giigiaaagae erageigag gatggiggi tilgafaaat acacaateca aacgatgaaa tgittigi tgreeqqtat	trigaaagat rigalaatgg tigaaattgrag tafctaacat tigaatfet tagattafgt gigattafgt cyttatcaa aaastgatat cifytgqtca gicyaaataa	tacaaacatt attifatiaf tadaigggtt tttiftadaa tacaaadaa tadaaagtog tatactiga ggaaacagac taaanttqta atcgtcgaaa adaattatgt tafattifgt aatadaaac	ataggtgaga gaaggegata tetaatgatg gaagnagtte cetafttcaa amagtgate amaggeaaa amaganaata amaganaatt amagtgaaaat tyfgaaaaat traactegeg	120 180 210 20 20 20 110 110 180 240 600 720 780
183 ×211 × 160 × 212× 161 × 212× 161 × 213× 171 × 160 × 171 × 160 × 171 × 160 × 171 × 160 × 171 × 160 × 171 × 160 × 171 × 160 × 171	LEMGTH: 794  FYFE: DNA  PROANISM: Amsac  SEQUENCE: 4  gaty acattaactt  atti talacetect  cast talacetect  cast talacetect  cast talacetect  cast talacetect  atti talacetect  cast talacetect  atti talacetect  atti talacetect  atti talacetect  atti talacetect  tit talacetect  tit talacetect  atti acacetat  atti acacetat  acac acattat  acac acacetat  tatc gatygat  acc tta  step ID NO: 5  LENGTH: 885  FYFE: DNA  PRGANISM: Amsac	giatiatgaa guatiattig tattigigag aaattitete aatamaaata giigiaaagae erageigag gatggiggi tilgafaaat acacaateca aacgatgaaa tgittigi tgreeqqtat	trigaaagat rigalaatgg tigaaattgrag tafctaacat tigaatfet tagattafgt gigattafgt cyttatcaa aaastgatat cifytgqtca gicyaaataa	tacaaacatt attifatiaf tadaigggtt tttiftadaa tacaaadaa tadaaagtog tatactiga ggaaacagac taaanttqta atcgtcgaaa adaattatgt tafattifgt aatadaaac	ataggtgaga gaaggegata tetaatgatg gaagnagtte cetafttcaa amagtgate amaggeaaa amaganaata amaganaatt amagtgaaaat tyfgaaaaat traactegeg	120 180 210 :00 :00 :00 180 180 540 600 720 780

 RAW SEQUENCE LISTING
 DATE: 09/26/2000

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 US/09/662,254
 LIME: 12:11:49

Input Set : A:\uf-221xc1.txt
Output Set: N:\CRF3\09262000\I662254.raw

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213	aafattaata tittafafat	taattataat	aaagjatate	atatanctifi	attaattaat	2.10
	atgrafficty attacasast					200
	ttatatuata todiaanaaa					ģΰ
	togratotag aaalatatga			*		130
						180
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	laatmatiyyg atguttutta					€ ₹ 0
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3.44	gatatoaatt otgitalait	-adataadaja	ggaattgata	gaaaattane	tiggrafaat	3.0
13.00	atgaaatata qafticaaaa	tuataatgat	tataaaattg	catatagaat	attaaataaa	130
3.40	tafataaaat cagaaaacaa	accaatatta	aaaaaatata	ataatattaa	tadaaataat	₹10
240	atagaaatg foatfagato	attatotasa	gaaatgagtt	attat		885
	(21) > SEQ TO NO: 6		,			
	Cily LENGTH: 3/9					
	.212 · TYPE: DNA					
	-213 - ORGANISM: Amsac	* . musai s	ne amosasani i m	1.12		
		ra moorer e	птошоролутт	.15		
	:100 SEQUENCE: 6					
	atggatgtta ataaatatat					F: ()
	ittangtagaa atangaanga					1.20
2. 8	atggatatat tattatbaba	aatacaattt	ttatoquaqu	taaataftaa	aaaaataty:	130
200	aataatacta atqqtataqt	faacatatta	-ratattggat	cttcalaagc	atateatttt	. 10
2 - 2	aatatattaa atgaattata	taaaaattta	actaatatto	agtggtattt	ttatgatatt	. 0 u
2001	ataqateeqt qtaftaqeqt	agagagattg	tottataata	ttatttttaa	taggaaactt	ή Ü
2-6	tttaccqaaq atqutattat	adattitaaa	gatamatate	cactaitatt	aatatatqat	4.20
	tatqitgata aatotaacgt					;30
	ataatatatt taaateegae					1.0
	tqqaataatt Cttttaatga					( 0.0
	atamaarcat tacatactag					160
	gatququtag aat tgauau					1.20
	tataacgata tatataalaa					180
	lataataatt pagettataa			aaaatataat	adataraati	€40
	aacqaaqata aaatatttaq	atcaaaaqaa	aaatatatt			E. 74
285	:210 - SEQ ID No: 7					
187	:211 / LENGIH: 3313					
389	:212 - TYPE: DNA					
20:	1913 - ORGANISM: Amsaco	ta moorer en	ntomoposviri	is		
	<100 > SEQUENCE: 7		•			
	atgeeththt taggaactgg	tatattassa	intganataa	cacaditaca	aaataaadaa	6.0
	agaggaagtg attataatgc		-			120
	aatqatqata tattaatacc					180
	satuatyana ranjaanaco Sataatiggi atasaataaa		The second secon			240
		**		,	-	-100
	gattatgata oogaagaaat					
	gattacquat tatcagaate				-	360
	tatamamatt cattematag					4.30
	gaagttaafa tacaatatta			-		480
	aatgattiag tittatitat					5.10
314	atattoatta atcaatatag	gtggttttat	gtattaaata	atatagaacc	atctygatca	600

 RAW SEQUENCE LISTING
 DATE: 09/26/2000

 PATENT APPLICATION: US/09/662,254
 TIME: 12:14:19

Input Set : A:\uf-221xc1.txt
Output Set: N:\CRF3\09262000\1662254.raw

416 tatagaataa afatqqataa	-tatgcaaaaa	attaaaacat	ataataaaa	!aaaacatca	660
- 318 tattattgca aaaateetaa	aftgttatft	totaattatq	ittaaaatagi	taaacatatt	7.20
320 retgenagte geatt'etat	tqatatagaa	tyccaacatt	ituqtqaatt	recaleaget	~80
332 datadattte efattfetea	ratttgtata	gattggtata	tqqataaqaa	facasatecq	840
(3) atauagaasa taatascatt	aataaactat	qaaataataa	aaaattargt	чудачававу	900
126 aaagataaat fiatalatac	ogaagttaat	aagttattaa	atacaaataa	agtatatatt	960
128 acaatatatt gtabagaaaa	atatatgeta	cattttgtat	tatatactor	taggraggat	10.20
30 ftcgaftatg fittgacata	caacggacat	aattttgatt	ttacatatat	traagatagg	1080
32 aggaaaataa ataagttaga	augtitatur	ttagataatg	tatattotas	aaat gagata	1113
- 34 agadatoaa aattitotta	taatcaagat	antacatatq	aaattgacar	cactaacgga	1200
-36 attafaffif fagafffata	taattatatt	asaaaaacat	athettegte	aaataqttat	1260
-38 laghtifoag aaataactaa	agaaagattt	aatatatttt	gtaagatath	atataataat	1320
- 40 aatgaatata ttatogaacc	atigaitara	adagetaata	адаасдаадт	atchatatht	1380
- 43 tatgatgita taagaactge	taattattgr	ttfättaata	ataatooata	taaaataaaa	1410
44 aataagacag adattattga	tgatatagaa	agattatatq	atttaacats	qatahaaaat	1500
16 logostaira adagattiac	catatatgaa	aatgatatto	ctaffaafga	taattatgda	15c0
48 acayttatgt tatetaaaga	tgatgttgat	attogagata	aaaatgcata	tottaatttt	1600
50 actiaaqaaa aatcaqataa				,	1680
52 igtaittita aatacqatat		-			1740
54 flaccacagt glatugcatt				*	1800
ob adarcattat attodaataa		*	2		1860
138 gaaggtggtt atgttattga				•	1929
60 gattitaatt cogsatatec					1980
63 granaagtaa taaagttatt					2010
59 daagataatt atabatatoo					2100
he adalthatac taatquataq					2160
ns agaganatga anagcatgta					2220
70 cataacttet attetreage					2280
// ttatctqqtt cagaaajatt					2340
71 caaqqacaaa attitattaa				-	2460
76 autoffffaa fictfaataa					244.0
178 fatecoggia aftraautgi					2520
80 thaithataa cigitaitti					2580
3. gateataaat attitaratt					2640
-8; acadataatt tigaattiga					2700
Se adamatata tigangangt					27 ti 0
:88 adaggtactq cyttadtacq			*		28.10
190 antataaata tuttadaaga					2880
192 aaaataaatg attatttato					2940
-94 gatattaatg attttaaaaa	-				3000
196 ccaatagaat tatgtgttaa	-				3060
398 gateaaagat ttgattttat					3100
400 aagtggaata taaaatatac				-	3180
102 ctaalaaata aaaltaatta					3240
404 aatttagatc aaattattaa			-		3300
106 agttatgaac cacaatga	,		<i>J</i> · · · • ·	,	3318
109 - 210 - SEQ ID NO: 3					
411 - 211 - LENGTH: 1836					
413 <213> TYPE: DNA					

 RAW SEQUENCE LISTING
 DATE: 09/26/2000

 PATENT APPLICATION
 US/09/662,254
 TIME: 12:14:19

Input Set : A:\uf-221xc1.txt
Output Set: N:\CRF3\09262000\I662254.raw

	<pre>&lt;213 - ORGANISM: Amsacc</pre>	ta moorei e	ntomopoxvir	18		
	.100 - SFQUENCE: 8					60
	atuaatgata togataanaa					120
	aaagaatatt tagataaita					180
	tatcaatcua cagaatuttt					
	aaatatgttg graatatago		-			240
	gaaffaffaf atttacaaaa					
	ttataffata atamaaatca					350
	tittgtaaag tittggataa					130
	antacasaty atatasmics					130
	aattragatt craafgctaa					540
	grtacatfff acaafaffaa					6.00
	itgittaalag galtagalaa					6 10
	ittatottogi ataaachana					1.10
4.34	gacgatoffa geteattaca					730
116	atattagaaa gaagaaatga					8(10)
	ttagatatta alchadatat					9-10
4 -(	ataftactas fattakaataa					9-50
i :	amagement transferge	ctatgttata	caaaatucto	otgtgataat	ttttaaatat	10:10
) 4	aaaaatgtaa ataaraaart	∸atattaaa~	gaatritaaag	aaaatataat	tcaaaaatat	1030
4 (	addadtitaa altidatayy	aacat caat t	tragatitas	tatatgaaft	attaagtact	11.0
4 . 8	aataaggttg aaaaactcat	taatttagaa	astaattott	ogtafaaata	tattadaatt	1200
4+1	ttaacttcaa tättättiat	aggtectada	нанясарада	gtttaftana	attaaafata	12000
$4 \cdot 1$	aaaaatataa atgatttaat	адаааааааа	gataatatta	t saatatggg	aataffaaca	13.20
$4 \cdot 4$	atteaegaaa trasaafaat	ingaatatatii	aaagatatgg	aaccagttag	tagaaatitt	130
$4 \cdot r$	ataaatgatt tgaaacaasa	tataaattta	agtaqtgaat	gigaatggta	tatattagga	1110
1 ≥	teataigeta gamittaja	rtattetaai	gatattgata	tattaattut	agattitact	1 > 40
4 (	atagataaat tiitagalaa	attadaaaaa	atagcasaat	tratigtatat	aattaaaaaa	1540
4.	agtaataata tattttetag	cqtattttta	togcaaugta	anaaatttit	tettgaaata	16.30
4 .	aatadagtta ataacadaga					1630
4 (	titaatatti iraigegiaa					1140
4 8	ttaaaaaaag ataatgtaga	attacctata	actaaagaag	algatatatt	tuattattta	1800
4 - (	aagataaaat acataccaaa			,		18 46
4 .	-210 - SEQ ID NO: 9					
4	5211 - LENGTH: 4152					
	F212 - TYPE: DNA					
	<pre>#213 ORGANISM: Amsact</pre>	a moorei e	nt omeseevyi n	1:3		
	-100 - SHOUENCE: 9					
	atgtattita atatttiaaa	togattatta	togaaatatt	atattataaa	авраманая	+ (1
	tatatttatq atatqttaqa				-	1:0
	tttaaaaaaa atataaaata					180
	aatacaaata ttatatatta					240
	gocaaaqaat taaaaataaa				-	360
	tttattgata ctaatgaaac					3+0
	tutactataa qatttaataa					4.0
						4.0
	ttaattaara tgaatta'tt					540
	ataaatgaat acatatataa					540 600
	atattaatta ttgcatttut					660
214	atgitcaaaa taa*aaaagt	yecadadata	i i diditatat	LateCoalatett	tatatyttea	0.00

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/662,254

DATE: 09/26/2000 TIME: 12:14:50

Input Set : A:\uf-221xc1.txt
Output Set: N:\CRF3\09262000\1662254.raw

L:19 M:2°0 C: Current Application Number differs. Wrong Format L:21 M:2°1 C: Current Filing Date differs. Replaced Current Filing Date